

# SILICON PYRANOMETER

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**CATALOG # 3670**

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***Spectrum***  
***Technologies, Inc.***

## THANK YOU

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Thank you for purchasing a Silicon Pyranometer Sensor to use with your WatchDog Data Logger. The sensor subsamples solar radiation between 300 and 1100 nanometers. This range is important for evapo-transpiration calculations. This manual will aid you in placement and mounting of the sensor. Read it thoroughly to insure proper and effective use.

The Silicon Pyranometer Sensor includes a 6 foot data cable; which is plugged into an available external port on WatchDog data logger models 200, 225, 425, or 450 as well as the model 600 and 700 WatchDog Weather Stations. Once the sensor is in a representative "micro-climate", insert the data cable plug into the WatchDog external channel to log solar radiation data.

Use **SpecWare 6.0** software to program the WatchDog to log solar radiation on the desired port. Refer to the **SpecWare 6.0 Instruction Manual** for detailed launch and/or readout instructions.

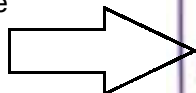
## INSTALLING SENSOR

Install the sensor so that it is level. Once the sensor is mounted, use the adjustment screws to level the sensor so that the bubble is centered on the level indicator. Mount the sensor on a 1" to 1¼" mast or pipe using the u-bolt provided.

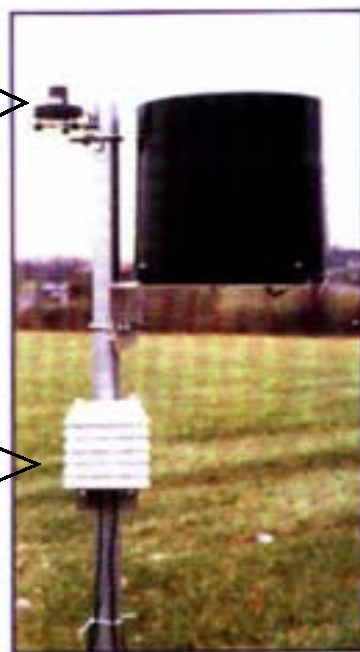
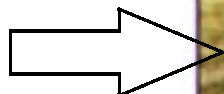
Position the sensor in an appropriate area that monitors the plant conditions. Make sure the pyranometer sensor is not being shadowed or blocked by another external sensor. Contact your cooperative extension agricultural agent for further suggestions on field placement.

Inspect the sensors frequently to make certain the sensors are still level and clear of obstructions.

Place pyranometer sensor in a position that it will mimic the sunlight the plant is getting, while being within reach of external WatchDog data port.



WatchDog Data  
Logger inside mini-  
radiation shield



## WARRANTY

This product is warranted to be free from defects in material or workmanship for 1 year from the date of purchase. During the warranty period Spectrum will, at its option, either repair or replace products that prove to be defective. This warranty is void if the Spectrum products have been damaged by customer error or negligence or if there has been an unauthorized modification.

### Returning Products to Spectrum

Before returning a failed unit, you must obtain a Returned Goods Authorization (RGA) number from Spectrum. You must ship the product(s), properly packaged against further damage, back to Spectrum (at your expense) with the RGA number marked clearly on the outside of the package. Spectrum is not responsible for any package that is returned without a valid RGA number or for the loss of the package by any shipping company.

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